Navajo Abandoned Uranium Mine

Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

Adolf Maloney No. 2 AUM Site

Navajo AUM Western Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

12767.063.599.1111

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Part I	Site Identification, Location and Status					
Site Names aı	nd ID number	s as applicable	2			
Mine ID:	538					
Map ID:	W123					
CERCLIS:	NNN00090919					
Navajo Aban	doned Mine L	and Reclamat	ion Program: No	one		
Local name /	Aliases: A. Ma	aloney No. 2; A	Adolf Maloney #2;	Maloney; A	Adolf Maloney	
Chapter and	local area: Le	upp Chapter				
County: Coc	onino	State: Arizor	na			
Lat/Long: 35.5350881933 N / -111.179626022 W						
Nearby road and highway: Indian Route 6730 Local Post Office: Leupp, AZ						
Surface Land Status: check one or more and provide ownership and contact information below						
Tribal Trust Private Bureau of La State			Public lands Tribal Fee Land Allotment Fee land			
Subsurface M	Iineral Rights	:				
No information on subsurface mineral rights ownership was found in the EPA/AUM Database						
Claim and op	erator inform	ation:				
The mine site surface land status is classified as Tribal Trust Land. Historical documents showed the operator of the mine as Sequoia Mining in 1957. No additional ownership / lease information was identified in the EPA/AUM database.						
Number of residential structures within 200 feet of mine: None						

Estimated volume of mine waste onsite: None

Part II Summary of radiological readings

Highest gamma radiation measurement:

11,501 counts per minute (cpm)

Describe any other radiological measurements:

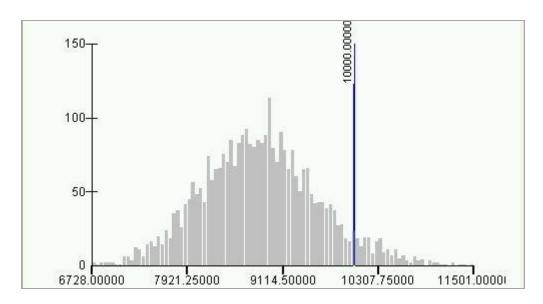
A total of 3,212 gamma radiation measurements were collected from the mine site, ranging from 6,728 cpm to 11,501 cpm. The measurements are represented in Figures 1 and 2.

Background Readings: 8,904 cpm; 9,520 cpm

Background Average: 9,212 cpm

Distribution Chart and Statistics:

The following chart and statistics were generated by ESRI ArcGIS 9.3.1, and show the general distribution of the site gamma radiation measurements. The horizontal X axis represents the gamma radiation reading levels in cpm (lowest levels to the left). The vertical Y axis represents the frequency of each gamma radiation level.



 Count:
 3212

 Minimum:
 6728,00000

 Maximum:
 11501,00000

 Sum:
 28372246,00000

 Mean:
 8833,20237

 Median:
 8815,00000

 Standard Deviation:
 724,63665

Part III Status of Reclamation and Mine Waste

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: Unknown Waste Pile onsite: No

NAMLRP Project Number: None

NAMLRP Mine features: None

The following information was obtained from field observations collected during the 2010 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.					
Observed reclamation work and status:					
Adits					
None					
Waste Piles					
None					
Pits					
None					
Shafts					

Shafts

None

Other Debris and Mine Features

None

Part IV

Site observations and Environs

Observed Structures: list number of and describe human habitation status of structures at the following distances from mine:

0 to 200 feet: None

200 feet to 0.25 mile: None

Observed Public or commercial structure: list and describe all schools, clinics, Chapter Houses, places of business and any other structure used by members of the community at the following distances:

0 to 200 feet: None

200 feet to 0.25 mile: None

Levels measured around the perimeter(s) of the identified structure(s):

None

Observed water sources: list the number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine:

0 to 0.25 miles: None

0.25 miles to 4 miles: Windmill Well approximately 1.5 mi E of the site

Sensitive environments: note and describe all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation.

None observed

Known Site History: include information from interviews with Chapter officials and residents. Note information on mine ownership, type of mining operation, period of operation, known amount of production, and any other information as provided.

Adolf Maloney No. 2 mine consists of an area of 166,645.71 m². The mine was identified as being operational in 1957. Historical documents showed the operator of the mine as Sequoia Mining in 1957. While operational, the mine had a total production volume of 24 tons. No other historical information or any additional ownership / lease information was identified in the EPA/AUM database.

Part V Response Action Summary

Summary of Evaluation Factors:

Accessibility:

Was the mine easily accessible to potential human activity? Yes

Radiological Measurements:

Were any gamma radiation measurements collected at the mine greater than two times the site-specific background levels?

No

Waste Piles:

Were any unreclaimed waste piles observed at the mine with gamma radiation measurements greater than two times the site-specific background levels? No

Structures:

Were any structures observed within 200 feet of the mine?

No

Potential Drinking Water Sources:

Were any potential drinking water sources observed within 4 miles of the mine? Yes

Reclamation:

Was the mine reported to be previously reclaimed, or did the mine appear to be reclaimed?

Unknown

Part VI Photos



Photo 1. Adolf Maloney mine site

Name:

Part VII Contacts Reports and Information

Stanley Edison (928) 871-6861

Eugene Esplain (928) 871-7331						
Title or official role (if any) Navajo EPA Superfund Program						
AddressPO Box 2946, Window Rock, AZ 86515						
Information provided <u>Lead Regulatory Agency</u>						
Name						
Title or official role (if any)						
Address						
Telephone number						
Information provided						
Name						
Title or official role (if any)	_					
Telephone number	_					
Information provided						
Name						
Title or official role (if any)	_					
Telephone number	_					
Information provided						

